APPLIED MATHEMATICS AND COMPUTATION

VOLUME 77

C. F. MARTIN AND D. I. WALLACE
Quadrature Schemes for a General Family of Functions 1

A. AL-ZAMEL AND S. KALLA
Epstein-Hubbell Elliptictype Integral and Its Generalizations 9

QIMING HE
Domain Decomposition Method for Nonlinear Generalized Schrödinger-Type Systems: Semi-Discrete Problem 33

R. A. FORD, M. H. HAMDAN, AND L. E. GAREY
Effects of Coordinate Transformation and Differencing Schemes on Matrix Structure and Convergence History 53

E. Y. DEEBA AND S. A. KHURI
The Decomposition Method Applied to Chandrasekhar *H*-Equation 67

A. M. WAZWAZ AND S. A. KHURI
Two Methods for Solving Integral Equations 79

GARY R. WAISSI AND DONALD F. ROSSIN
A Sigmoid Approximation of the Standard Normal Integral 91

A. BARONIO, E. LOLI PICCOLOMINI, AND F. ZAMA
A Method for Solving the Indirect Approximation Problem 97

G. ADOMIAN
Nonlinear Random Vibration 109

A. S. VATSALA AND DONNA STUTSON
Generalized Quasilinearization and First-Order Periodic Boundary Value Problem 113

G. ADOMIAN
The Burridge-Knopoff Model 131

(Continued)

G. Adomian
Coupled Maxwell Equations for Electromagnetic Scattering 133

Ismail Ali and Shyam Kalla
An Application of Fractional Calculus to the Solution of a General Class of Differintegral Equations 137

J. H. Shen
The Nonoscillatory Solutions of Delay Differential Equations with Impulses 153

Dariush Ghorbanzadeh
Detection of Random Change Point in One-Parameter Exponential Families 167

Kuldeep Kumar and M. A. Alsaleh
A Comparative Study for the Estimation of Parameters in Nonlinear Models 179

A. A. S. Zaghrout and S. H. Attalah
Analysis of a Model of Stage-Structured Population Dynamics Growth with Time State-Dependent Time Delay 185

A. Zaghrout, A. Ammar, and M. M. A. El-Sheikh
Oscillations and Global Attractivity in Delay Differential Equations of Population Dynamics 195

Kuldeep Kumar and M. A. Alsaleh
Application of Hankel Matrices in Polynomial Regression 205

Faruk H. Bursal
On Interpolating between Probability Distributions 213

Aimée Bella, Lucien Duckstein, and Ferenc Szidarovszky
A Multicriterion Analysis of the Water Allocation Conflict in the Upper Rio Grande Basin 245

Fa-Long Luo, Yan-Da Li, and Hong-Qinq Xu
Real-Time Computation of the Eigenvectors of a Class of Positive Definite Matrices 267

Dragan Jukić and Rudolf Scitovski
The Existence of Optimal Parameters of the Generalized Logistic Function 281

(Continued)

S. A. KHURI AND A. M. WAZWAZ
The Solution of a Partial Differential Equation Arising in Fluid Flow Theory 295

M. KAPPELLER, M. KIEHL, M. PERZL, AND M. LENKE
Optimized Extrapolation Methods for Parallel Solution of IVPs on Different Computer Architectures 301